

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	37	SUN-JIAN	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 14:04
S2	0	image near (hallucination or hallucinations) near reconstruction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 11:57
S3	3	image near hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:37
S4	1	image near hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2007/01/05 12:14
S5	2	image near hallucination	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 12:14
S6	3151136	face hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:37
S7	2204149	S6 near high frequency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:38

EAST Search History

S8	267565	S7 near low resolution near (image or images)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:38
S9	0	S8 near interpolation near low adj frequency adj (image or images)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:39
S10	72	S8 near interpolation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:47
S11	1902	image near high adj resolution and low adj resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:48
S12	0	S11 and (interploation or interploations)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 13:49
S13	33	S11 and primitiv\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 14:01
S14	1132	382/254.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 14:01
S15	65	("5488674").URPN.	USPAT	OR	ON	2007/01/05 14:54

EAST Search History

S17	0	S14 and hallucination	USPAT	OR	ON	2007/01/05 14:55
S18	0	S14 near hallucination	USPAT	OR	ON	2007/01/05 14:55
S19	632	382/254.ccls.	USPAT	OR	ON	2007/01/05 14:55
S21	0	S14 near hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 14:56
S23	8125602	primal sketch (prior or priors) near low resolution or high resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:02
S24	2295	S23 and hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:02
S30	485425	training data near image reconstruction and hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:07
S31	367070	S30 and filter bank	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:08
S32	37517	S31 and transformation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:08

EAST Search History

S33	2	S32 and extraction near low-frequency	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 15:09
S34	54	("5485279").URPN.	USPAT	OR	ON	2007/01/05 15:18
S35	647	382/299.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/05 15:52
S36	0	S35 and hallucination	US-PGPUB; USPAT	OR	ON	2007/01/05 15:53
S38	0	382/299.ccls. and hallucination	US-PGPUB; USPAT	OR	ON	2007/01/05 15:53
S39	158	382/299 and contour	US-PGPUB; USPAT	OR	ON	2007/01/05 15:55
S40	0	S39 and super-resolution	US-PGPUB; USPAT	OR	ON	2007/01/05 15:54
S41	158	382/299 and contour	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:15
S42	3144442	image reconstruction and contour smoothness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:16
S43	87469	S42 and extraction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:16
S44	79	S43 and "nearest neighbor interpolation"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:20

EAST Search History

S45	0	S44 and "normalizing the low-resolution image"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:22
S46	36	S44 and normaliz\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:25
S47	1	hallucinati\$4 near low adj frequency near (image or images)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:26
S48	585600	Markov chain near image resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:27
S49	41497	S48 and interpolat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:27
S50	105696	S49 and contour smoothness	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:27
S51	2658702	S49 and bicubical\$3 storage	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:29

EAST Search History

S52	4172676	S49 and high primitive (layer or layers)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/05 17:30
S53	23	edge near directed near interpolation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:11
S55	8	image near enhancement near resolution near (high or low)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:19
S56	825	382/266.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:19
S57	0	S56 and interploated near low near resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:20
S58	576316	S56 and low resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:20
S59	849	S56 and low resolution near reconstruction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:21

EAST Search History

S60	0	S59 and primal adj sketch adj (priors or prior)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:21
S62	967	S59 or S56 and high and low resoltuion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:22
S65	2	"high frequency primitive layer"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:24
S66	38499	(low image resolution) and (bicubic interpolation) and (high frequency primitive layer) and (primal sketch prior)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:25
S67	32	S66 and hallucination	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 09:26
S68	24678	S66 and (gaussian derivative filters)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 10:18
S69	1	("6778698").PN.	US-PGPUB; USPAT	OR	OFF	2007/01/08 10:22
S70	1	("6608929").PN.	US-PGPUB; USPAT	OR	OFF	2007/01/08 10:22
S71	0	(2005/0220355).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/04/09 17:57
S72	1	("20050220355").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/09 17:57

EAST Search History

S73	5620	fractal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:13
S74	3330	super-resolution or superresolution or super adj1 resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:14
S75	0	low adj1 resoltuion with high adj1 resoltuion with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:15
S76	2302	low adj1 resolution with high adj1 resolution with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:15
S77	19	S73 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:15
S78	501473	iterat\$4 or converg\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:15
S79	19	S73 and S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:16

EAST Search History

S82	782	S78 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:17
S83	358	S78 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:17
S84	604938	train\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:17
S85	782	S78 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:18
S86	125	S84 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:18
S87	135	S84 and S83	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:18
S88	38109	primitive	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:18

EAST Search History

S92	5	S88 and S87.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:23
S93	0	"345"".""418".ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:22
S94	1266	345/418.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:22
S95	4	S94 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:23
S96	2809	345/419.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:23
S97	5	S96 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:23
S98	374	348/745.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:23

EAST Search History

S10 1	0	S98 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 11:24
S10 2	1	("6766067").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 13:17
S10 3	1	("6307569").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 11:24
S10 4	1	("6434280").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 11:24
S10 5	1	("6263103").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 11:24
S10 6	1	("7151801").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 11:24
S11 0	1	PASZTOR-EGON	US-PGPUB; USPAT	OR	ON	2007/04/23 13:19
S11 1	3	PASZTOR-EGON-C	US-PGPUB; USPAT	OR	ON	2007/04/23 13:19
S11 2	7	("5784114" "5940145" "5963670" "6097854" "6141019" "6151424").PN. OR ("6496184").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/23 15:08
S11 3	6	("6263103" "6380934" "6411333" "6434280" "6456340").PN. OR ("6766067"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/23 15:09
S11 4	1	("6434280").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/23 16:52
S11 5	34	("6097854").URPN.	USPAT	OR	ON	2007/04/23 17:38
S11 6	3330	super-resolution or superresolution or super adj1 resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 17:43
S11 7	374	348/745.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 17:43

EAST Search History

S11 8	4	S117 and S116	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 17:43
S11 9	1	"6137498".PN.	USPAT; USOCR	OR	ON	2007/04/24 09:18
S12 0	460	markov adj1 chain	USPAT; USOCR	OR	ON	2007/04/24 09:19
S12 1	1019	markov adj1 chain	US-PGPUB; USPAT	OR	ON	2007/04/24 09:24
S12 2	1	primal near sketch near prior	US-PGPUB; USPAT	OR	ON	2007/04/24 09:24
S12 3	15	primal near prior	US-PGPUB; USPAT	OR	ON	2007/04/24 09:25
S12 4	0	S121 and S123	US-PGPUB; USPAT	OR	ON	2007/04/24 09:24
S12 5	22	primal near sketch	US-PGPUB; USPAT	OR	ON	2007/04/24 09:26
S12 6	0	S123 and S125	US-PGPUB; USPAT	OR	ON	2007/04/24 09:25
S12 7	15	S123 not S125	US-PGPUB; USPAT	OR	ON	2007/04/24 09:25
S12 8	3332	super-resolution or superresolution or super adj1 resolution	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 09:26
S12 9	501712	iterat\$4 or converg\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 09:26
S13 0	605137	train\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 09:26

EAST Search History

S13 1	782	S129 and S128	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 09:26
S13 2	125	S130 and S131	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 09:26
S13 3	2	S121 and S132	US-PGPUB; USPAT	OR	ON	2007/04/24 11:21
S13 4	1	("6434280").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/24 11:22
S13 5	0	("S75andinterpolat\$4").PN.	US-PGPUB; USPAT	OR	OFF	2007/04/24 14:06
S13 6	0	low adj1 resoluion with high adj1 resoluion with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 14:06
S13 7	0	S136 and interpol\$5	US-PGPUB; USPAT	OR	ON	2007/04/24 14:06
S13 8	2304	low adj1 resolution with high adj1 resolution with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 14:06
S13 9	359	S138 and interpol\$4	US-PGPUB; USPAT	OR	ON	2007/04/24 14:07
S14 0	5	S139 and 382/254.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/24 14:36
S14 1	888	S138 and normal\$4	US-PGPUB; USPAT	OR	ON	2007/04/24 14:36
S14 2	167	S141 and "382".clas.	US-PGPUB; USPAT	OR	ON	2007/04/24 14:37
S14 3	9	S142 and markov	US-PGPUB; USPAT	OR	ON	2007/04/24 14:42
S14 4	2221803	S138 and backprojection or back adj1 projection or back projection	US-PGPUB; USPAT	OR	ON	2007/04/24 14:42

EAST Search History

S14 5	22155	S144 and "382".clas.	US-PGPUB; USPAT	OR	ON	2007/04/24 14:43
S14 6	577	S145 and markov	US-PGPUB; USPAT	OR	ON	2007/04/24 14:43
S14 7	222	S146 and interpolation	US-PGPUB; USPAT	OR	ON	2007/04/24 14:43
S14 8	9	S147 and primitive	US-PGPUB; USPAT	OR	ON	2007/04/24 14:50
S14 9	28	S138 and bicubic	US-PGPUB; USPAT	OR	ON	2007/04/24 14:50
S15 0	2	("6766067").URPN.	USPAT	OR	ON	2007/04/24 14:53
S15 1	5	("6263103" "6380934" "6411333" "6434280" "6456340").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 15:11
S15 2	0	"Estimating Targets Using Statistical Properties of Observations of Known Targets"	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 15:12
S15 3	25	FREEMAN-WILLIAM	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 15:12
S15 4	13	FREEMAN-WILLIAM-A	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 15:13
S15 5	32	FREEMAN-WILLIAM-T	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/24 15:13
S15 6	1701	primal	US-PGPUB; USPAT	OR	ON	2007/04/25 09:29
S15 7	27856	sketch\$4	US-PGPUB; USPAT	OR	ON	2007/04/25 09:29
S15 8	49	S157 and S156	US-PGPUB; USPAT	OR	ON	2007/04/25 09:31
S15 9	2304	low adj1 resolution with high adj1 resolution with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:31
S16 0	1643	S159	US-PGPUB; USPAT	OR	ON	2007/04/25 09:32
S16 1	1	S160 and S156	US-PGPUB; USPAT	OR	ON	2007/04/25 09:32
S16 2	35	S160 and S157	US-PGPUB; USPAT	OR	ON	2007/04/25 09:34

EAST Search History

S16 3	2304	low adj1 resolution with high adj1 resolution with (convert\$5 or transform\$4 or generat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:34
S16 4	501712	iterat\$4 or converg\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:34
S16 5	358	S164 and S163	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:34
S16 6	605137	train\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:34
S16 7	135	S166 and S165	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/25 09:34
S16 8	135	S160 and S167	US-PGPUB; USPAT	OR	ON	2007/04/25 09:34
S17 0	3	BAKER-SIMON	US-PGPUB; USPAT	OR	ON	2007/05/22 13:53
S17 1	1	BAKER-SIMON-DOMINIC	US-PGPUB; USPAT	OR	ON	2007/05/22 13:55
S17 2	1	BAKER-SIMON-MICHAEL	US-PGPUB; USPAT	OR	ON	2007/05/22 13:56
S17 3	44	KANADE-TAKEO	US-PGPUB; USPAT	OR	ON	2007/05/22 14:01
S17 4	0	S173 and hallucin\$5	US-PGPUB; USPAT	OR	ON	2007/05/22 14:01
S17 5	0	hallucina\$6 and S173	US-PGPUB; USPAT	OR	ON	2007/05/22 14:01

EAST Search History

S17 6	10558	back near project\$5 or histrogram adj1 equalization	US-PGPUB; USPAT	OR	ON	2007/05/23 17:22
----------	-------	---	--------------------	----	----	------------------